

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-7. (canceled)

8. (currently amended) A system for transferring data signals over a communication link having a plurality of channels comprises a plurality of transceivers, wherein each of said plural transceivers comprises:

a transmitting section for conditioning input data for transmission of said input data over the communication link having the plurality of channels;

a receiving section for receiving signals from one of the plural channels of the communication link and processing the signals into output data;

a channel switching device connected to said transmitting section and said receiving section;

a channel hopping sequence program part including a plurality of channel hopping sequences programmed therein, said plural channel hopping sequences including a channel hopping sequence associated with said each of said plural transceivers;

a channel selecting device connected to said channel switching device and said channel hopping sequence program part for controlling said channel switching device in accordance with one of said plural channel hopping sequences; and

a clock device connected for operating said channel selecting device, said clock device being synchronized by a public time signal for synchronizing channel hopping between a ~~transmitting one~~ said each of said plural transceivers and a ~~receiving another~~ one of said plural transceivers, wherein each of said plural transceivers comprises a unique identification number defining the channel hopping sequence associated with said each of said plural transceivers,

said each of said plural transceivers being operable for inputting the unique identification number of the transmitting one of said plural transceivers being transmittable by said transmitting one of said plural transceivers and receivable by the receiving a receiving one of said plural transceivers for identification by the receiving one of said plural transceivers of the

~~one of said plural channel hopping sequences associated with the transmitting one of said plural transceivers~~ for identifying the channel hopping sequence associated with the receiving one of said plural transceivers to be used for a connection setup between said ~~transmitting one each of said plural transceivers~~ and said receiving one of said plural transceivers.

9. (previously presented) The system of claim 8, wherein said clock device comprises a clock for generating an operating clock signal for the channel selecting device, said clock signal having a frequency within the range including 100 kHz to 10MHz.

10. (previously presented) The system of claim 8, wherein said frequency is approximately 1 MHz.

11. (previously presented) The system of claim 8, wherein said plural channel hopping sequences in said channel hopping sequence program part comprise all possible channel hopping sequences useable by said system.

12. (previously presented) The system of claim 11, wherein each of said plural channel hopping sequences are calculated from an algorithm base on said unique identification numbers of each of said plural transceivers.

13. (currently amended) An apparatus for processing transmit and receive signals, said apparatus being arrangeable in a transceiver having a transmitting section and a receiving section, the transceiver being one of a plurality of transceivers of a communication system, said apparatus and comprising:

a channel switching device connectable to the transmitting section and the receiving section of the transceiver;

a channel hopping sequence program part including a plurality of channel hopping sequences programmed therein, said plural channel hopping sequences including a channel hopping sequence associated with said each of ~~[[a]]~~ the plurality of transceivers in the communication system;

a channel selecting device connected to said channel switching device and said

channel hopping sequence program part for controlling said channel switching device in accordance with one of said plural channel hopping sequences; and

a clock device connected for operating said channel selecting device, said clock device being synchronized by a public time signal for synchronizing channel hopping between the transceiver and another one of the plural transceivers, wherein each transceiver in the communication system is identified by a unique identification number, said channel selecting device is operatively arranged for inputting the unique identification number of an intended receiver one of said plural transceivers for determining the channel hopping sequence associated with said intended receiver to be used for a connection setup between the transceiver and the intended receiver ~~a transmitting one of the plural transceivers and a receiving one of the plural transceivers.~~

14. (currently amended) A data transfer device for installation in a communication device arranged for at least one of transmitting and receiving data over one of a plurality of communications channels, the communication device being one of a plurality of communication devices in a communication system, said data transfer device comprising:

a channel switching device;

a channel hopping sequence program part including a plurality of channel hopping sequences programmed therein, said plural channel hopping sequences including a channel hopping sequence associated with said data transfer device;

a channel selecting device connected to said channel switching device and said channel hopping sequence program part for controlling said channel switching device in accordance with one of said plural channel hopping sequences; and

a clock device connected for operating said channel selecting device, said clock device being synchronized by a public time signal, wherein each communication device in the communication system is identified by a unique identification number, said channel selecting device is operatively arranged for inputting the unique identification number of an intended receiver one of said plural communication devices for determining the channel hopping sequence associated with said intended receiver to be used for a connection setup between the communication device and the intended receiver.

15. (currently amended) A method for synchronizing a data transfer operation between ~~a transmitter and a receiver~~ transceivers connected via a communication link having cyclically hopping channels, each of the transceivers being one of a plurality of transceivers in a communications system, wherein each of the plural transceivers has a specific channel hopping sequence associated therewith, said method comprising the steps of:

inputting, by a transmitter one of said plural transceivers, a unique identifier of a desired receiver one of said plural receivers;

determining, by the transmitter, the channel hopping sequence specific to the desired receiver using the unique identifier;

(a) dialing ealling, by a transmitter, ~~[[a]]~~ the desired receiver;

(b) adjusting a channel hopping sequence in the transmitter such that the transmitter uses the channel hopping sequence specific to the desired receiver in response to the step of dialing and the desired receiver;

(c) receiving a public time signal at both the transmitter and the desired receiver; and

(d) synchronizing the transmitter and the receiver using a time signal including one of the public time signal and a signal derived from the public time signal by starting the channel hopping sequence ~~of step (b)~~ specific to the desired receiver in synchronism with the time signal in both the transmitter and the desired receiver.